

Fig. 2: Biosynthesis of PHA

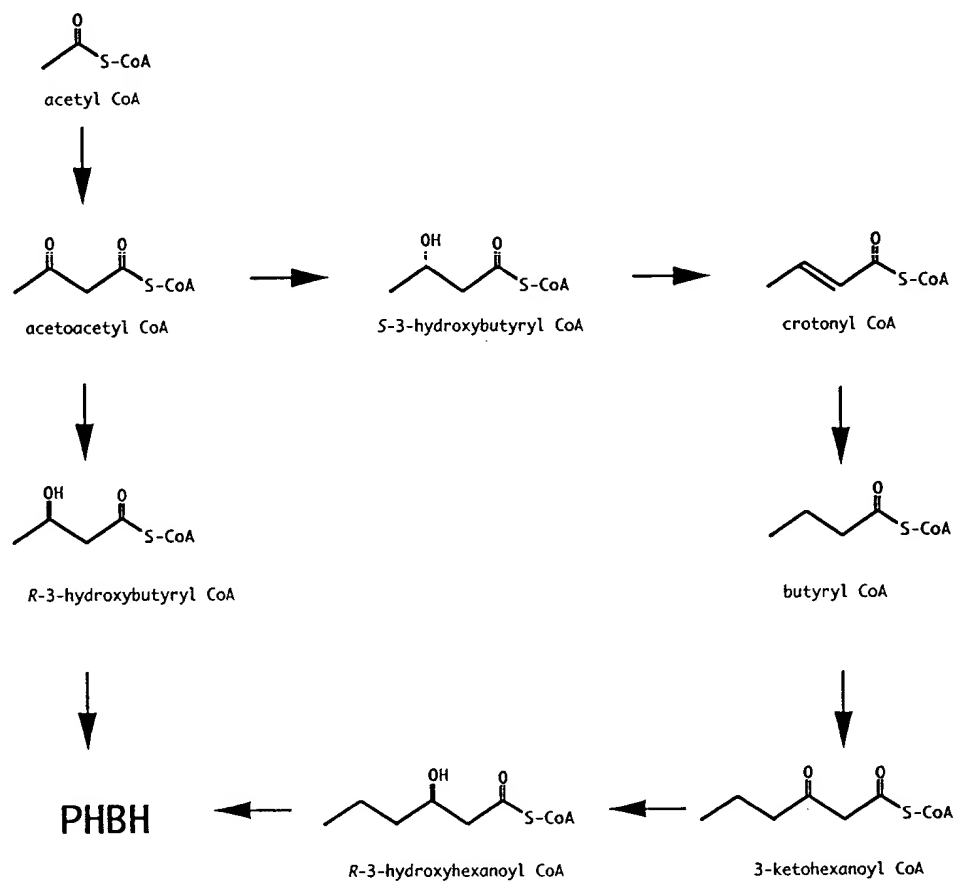
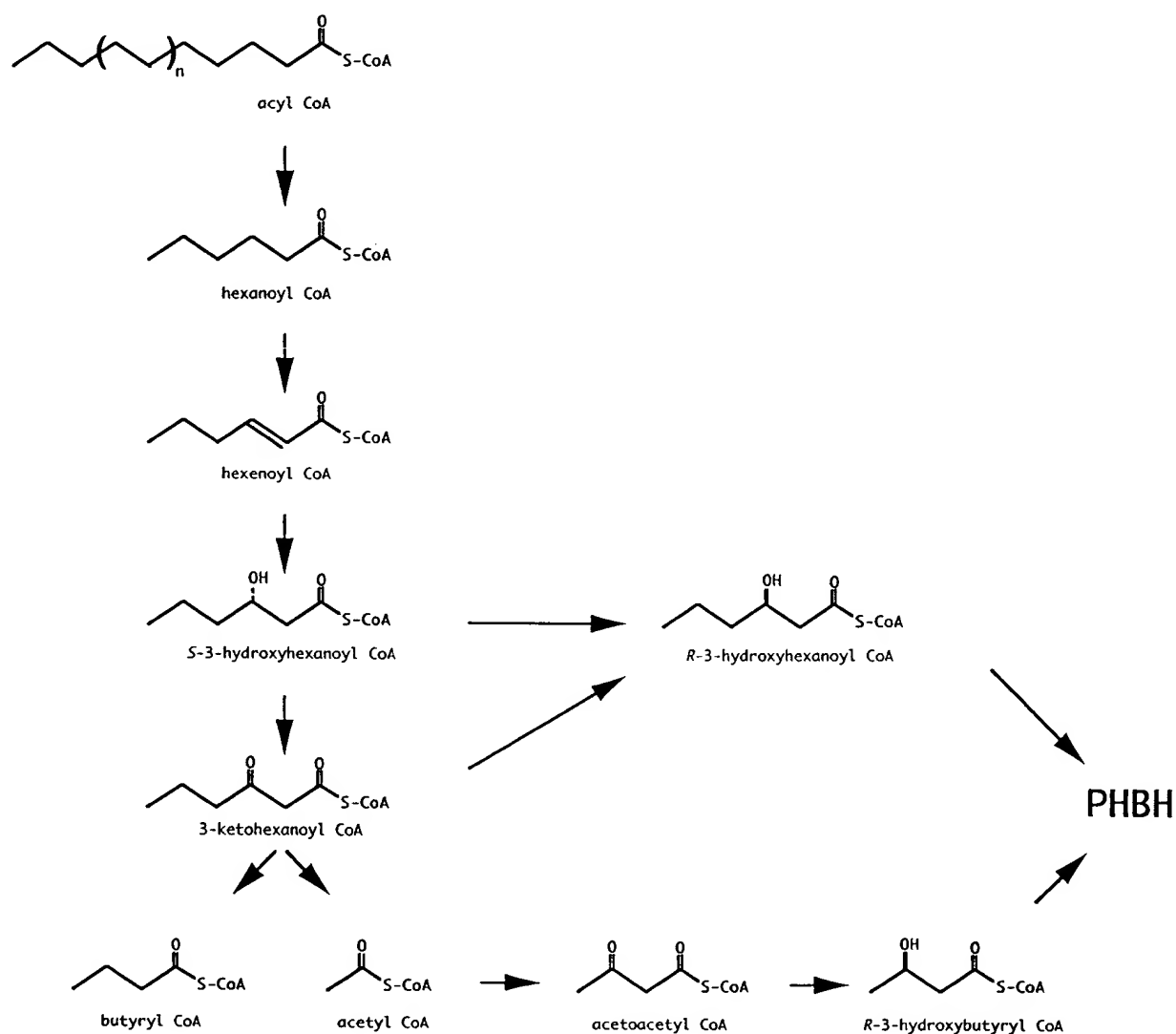


Fig. 3



**Fig.4: Biosynthesis of PHBH using the fatty acid oxidation pathway**

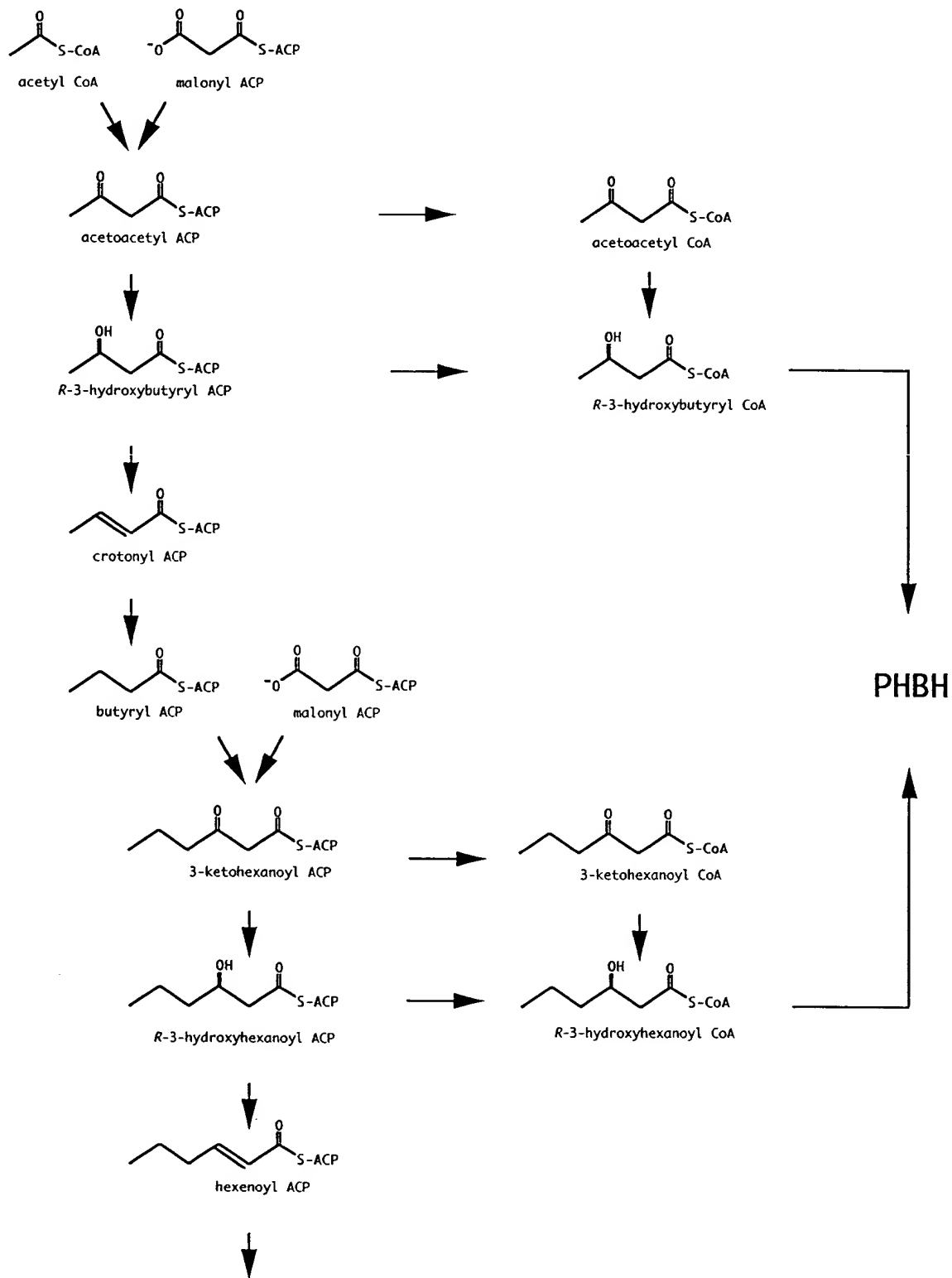
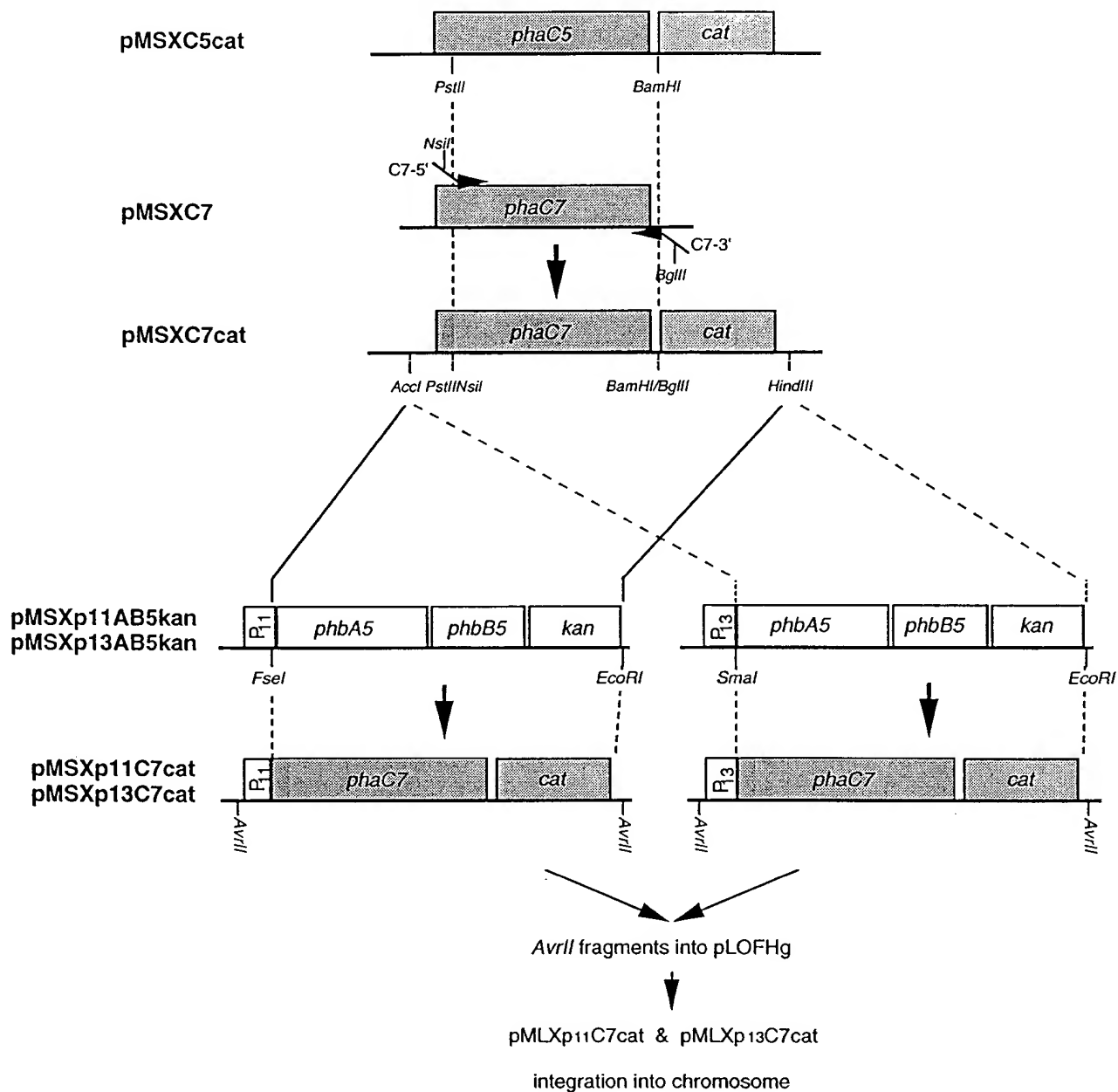
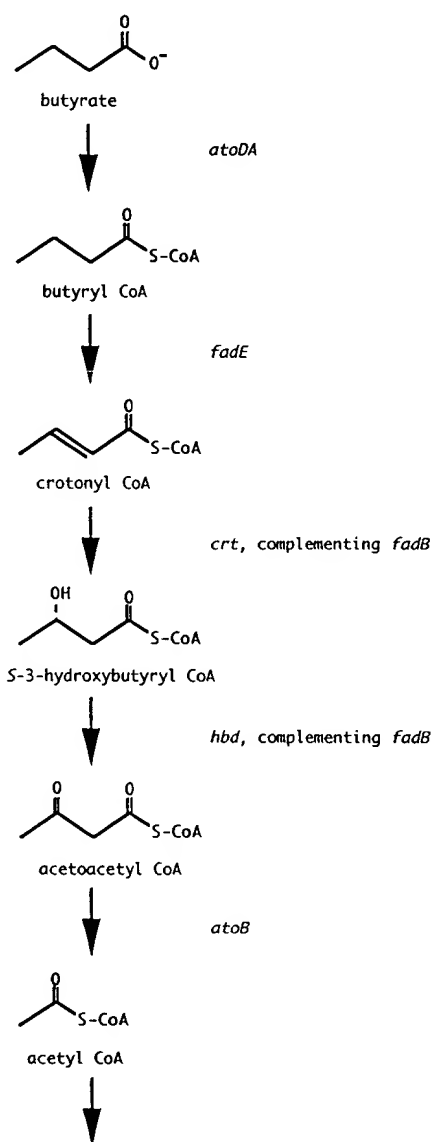


Fig.5: Biosynthesis of PHBH using the fatty acid biosynthesis pathway



**Fig. 6 : Construction of pMLXp11C7cat and pMLXp13C7cat for integration of the PHA polymerase gene from *N. salmonicolor* on the chromosome of *E. coli***



**Fig. 7: Selection for crotonase and hydroxybutyryl CoA dehydrogenase genes by complementation of an *E. coli fadB* mutation**

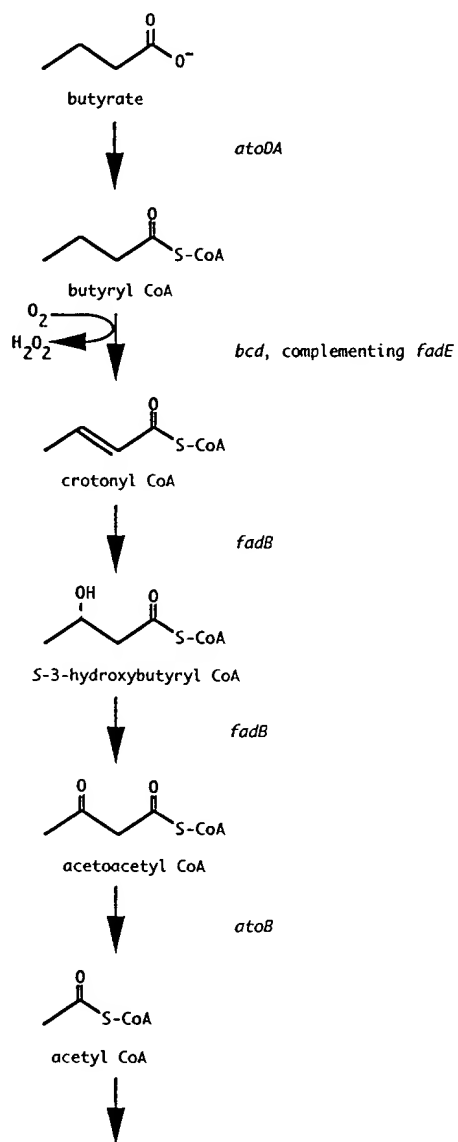


Fig. 8: Selection for butyryl CoA dehydrogenase genes by complementation of an *E. coli* strain that is phenotypically *fadE* defective



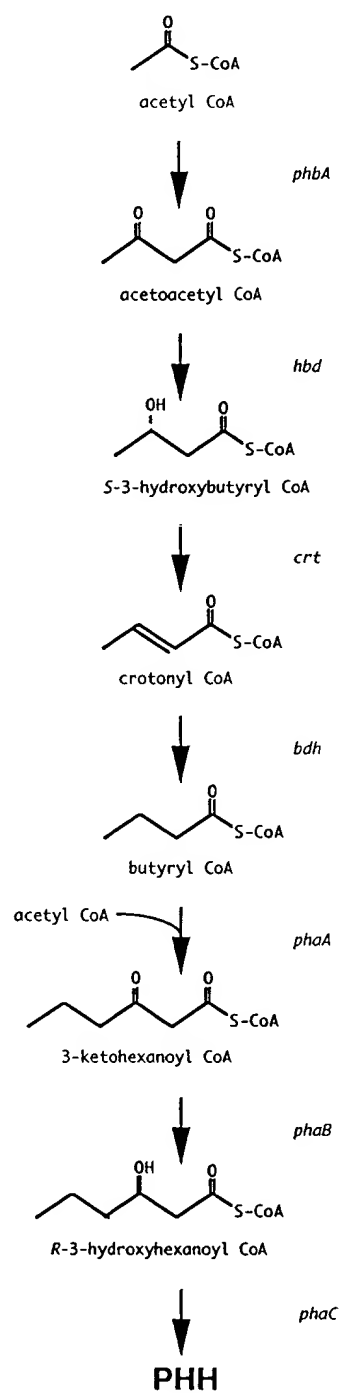
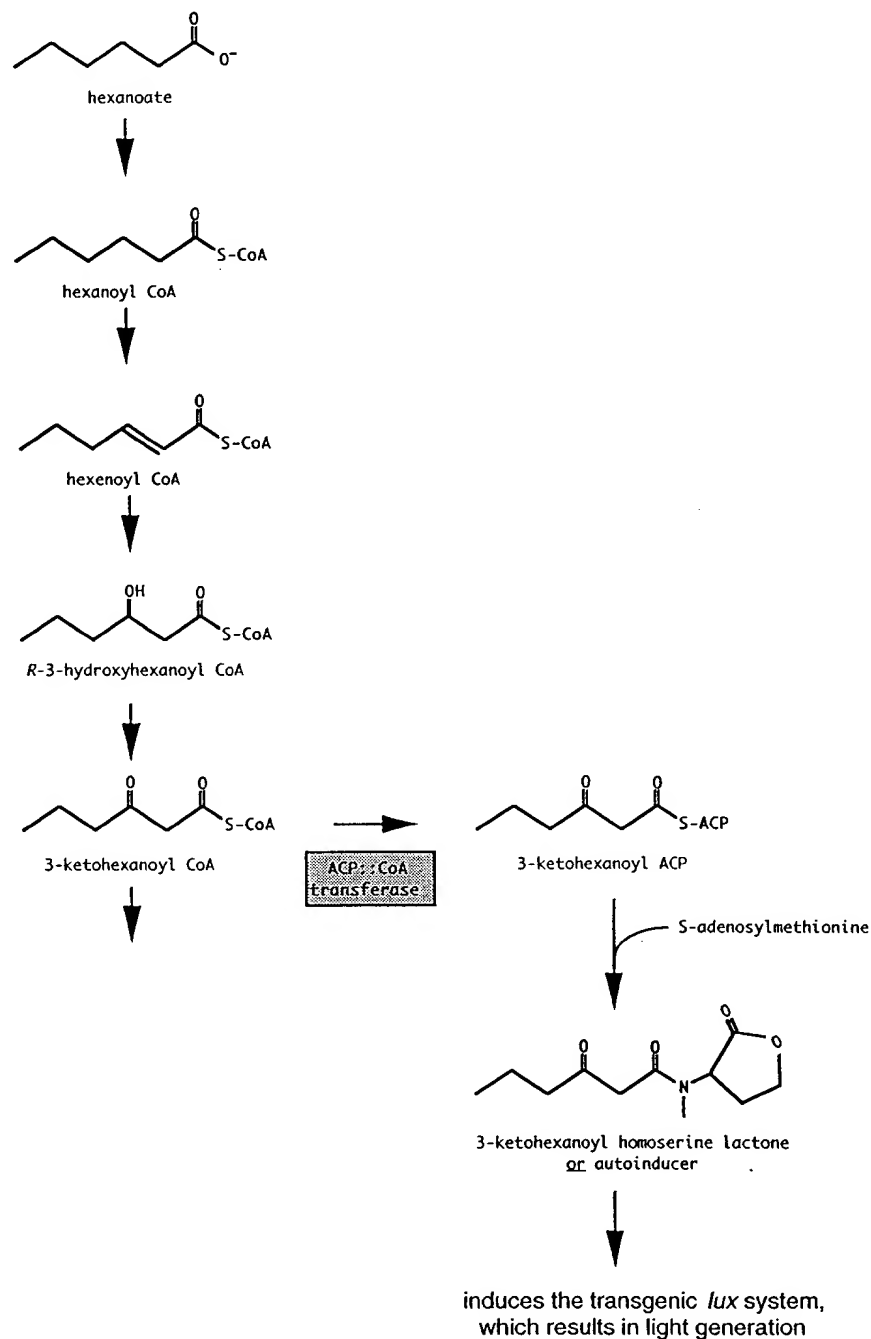


Fig. 9 : Selection for the PHBH recombinant pathway in *E. coli* using the PHA polymerase gene from *P. putida*, *phaC*.



**Fig.10 : Screening procedure for genes encoding enzymes that convert acyl ACP to acyl CoA with the use of the *Vibrio fischeri lux* system.**